M2 ENTERPRISES

PRESENTS OUR

6 METER ANTENNAS

LEADING EDGE DESIGNS

3 DECADES OF EXPERIENCE

FEATURING

CUSTOM TUNING
EASY ASSEMBLY
RUGGED DESIGNS
TECHNICAL BACKUP

M2 ENTERPRISES
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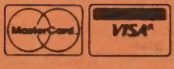
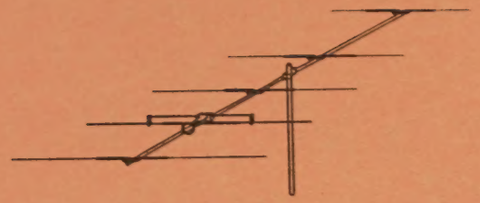
Fresno, CA 93711-6856

(209) 432-8873 FAX (209) 432-3059





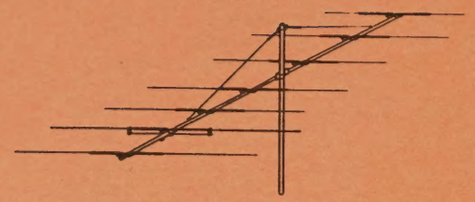
6M5

SPECIFICATIONS

Frequency	50-50.5 mHz
Gain	9.4 db
Front to back	12 db
Beamwidth E-plane	52 degrees
Beamwidth H-plane	60 degrees
Recommended stacking	15' wide 13' high
Feed impedance	50 Ohms
VSWR	1.2:1 @ 50.1 mHz
Power capability	1.5 KW
Connector	'N' female
Match type	'T' match
Balun	4:1 coaxial
Lightning Protection	All elements grounded
Boom Length/dia	189" (15', 10")/1-1/2 " dia
Element type	1/4" rod with 3/8" sleeve
Mast size	2' nominal
Wind area	2 sq. ft.
Wind survival	100 mph
Weight	9 lbs
Shipping weightr	11 lbs

FEATURES

The 6M5 is a light but rugged computer optimized Yagi providing optimum gain for the boom length. Featuring low wind load and low weight, it will compliment the rest of your antenna and tower system. Quick and easy to assemble, it is also great for mountain topping, grid expeditions and DXpeditons. For the real serious 6 meter nut, it provides an effective, inexpensive building block for vertical STACKS and MOUNBOUNCE arrays.



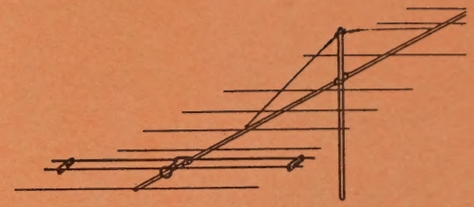
6M7

SPECIFICATIONS

Frequency	49.5 -50.5
Gain10.5	10.5 db
Front to back	23 db
Beamwidth E-plane	42 degrees
Beamwidth H-plane	50 degrees
Suggested stacking	24' wide; 22' high
Feed impedance	50 Ohms
VSWR	1.2:1 @ 50.1 mHz
Power capability	1.5 KW
Connector	'N' female
Match type	'T' match 4:1 Balun
Balun	4:1 coaxial
Lightning Protection	All elements grounded
Boom length/dia	321" (26.0 ft.)/2.0"
Element type	1/4" rod with 3/8" sleeve
Mast size	2" nominal
Wind load	3 sq ft
Wind survival	100 mph
Weight	17 lbs.
Shipping weight	19 lbs (UPS)

FEATURES

The 6M7 is a mid size 7 element, 6 meter antenna designed with the aid of computer technology. This design produces exceptional performance equaled only in longer boom competitive brands. It features a very manageable boom length combined with rugged construction at an economical price.



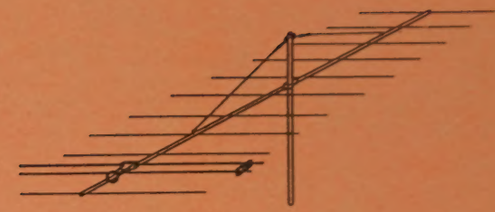
6M2WL

SPECIFICATIONS

Frequency	50.1 mHz
Bandwidth at 1.5:1	49.7 to 50.5 mHz
Usable frequency range	49.5 to 51.1 mHz
Gain over a dipole	12.1 dBd
Front to back	>25 db
Beamwidth E-Plane	36 degrees
Beamwidth H-Plane	39 degrees
First sidelobe	-20 db
Stacking (horiz. pol)	26' wide 24' high
Feed impedance	50 Ohm nominal
VSWR	1.2:1
Power handling capability	1500 watts with ease
Input connector	'N' female
Driven element type	Modified folded dipole
Balun	Half wave 4:1 provided
Element type	1/4" rod w/3/8" mid sleeve
Boom length	474:/39.5 ft. / 2WL
Boom support	Overhead Dacron
Boom dimensions	2-1/2" mid 20', 2" tips
Wind load	5 sq. ft
Wind survival	100 mph
Weight	31 lbs
Shipping weight	40 lbs

FEATURES

The 6M-2WL was conceived and designed to produce maximum gain and performance around 50.1 mHz. Countless hours of computer optimization and range confirmation resulted in an antenna which will set a new standard for long boom Yagis. It is an excellent stand alone antenna but for the adventurous,it is a perfect building block for a spectacular 6 meter gain package.



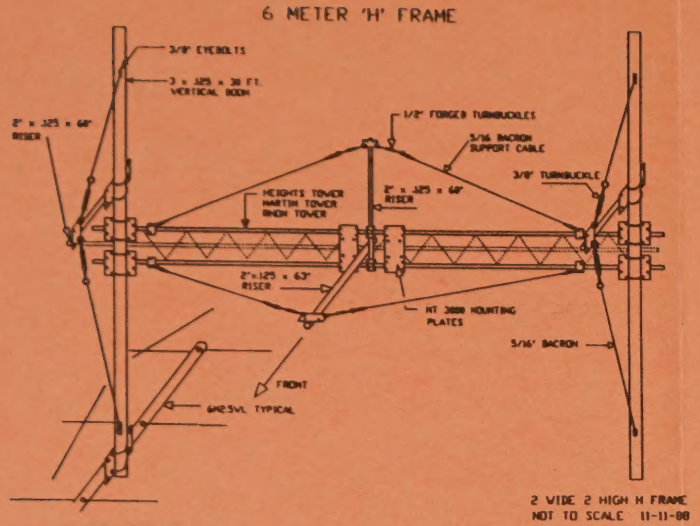
6M2.5WL
6 METER 13 dBd ULTRA HIGH GAIN

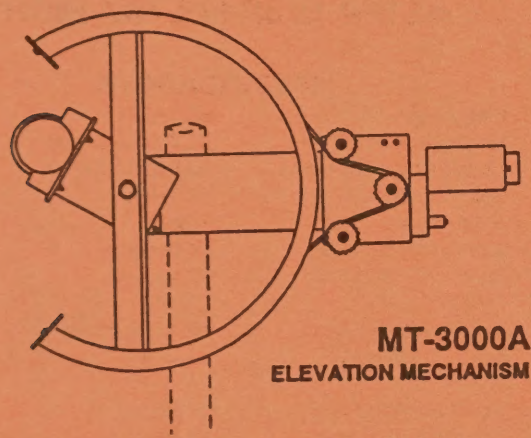
SPECIFICATIONS

Frequency	50.1 mHz
Bandwidth at 1.5:1	49.7 to 50.5 mHz
Usable frequency range	49.5 t0 51.1 mHz
Gain of a dipole	12.7 dBd
Front to back	>22 dB
Beamwidth E-Plane	33 degrees
Beamwidth H-Plane	39 degrees
First sidelobe	-18 dB
Stacking (horiz. pol)	30' wide, 26' high
Feed Impedance	50 Ohm
VSWR	1.2:1
Input connector	'N' female
Driven element type	Modified folded dipole
Balun	Half wave 4:1 included
Power handling capability	1500 watts
Element type	1/4" rod w/3'/8" mid sleeve
Boom length/Dia	50' 2" /2 1/2" mid /2"tips
Boom support	Overhead Dacron
Boom dimensions	2-1/2" mid 20'2" tips
Wind load	5.9 sq ft.
Wind survival	100 mph
Weight	38 lbs
Shipping weight	47 lbs

FEATURES

The 6M-2.5WL was conceived and designed to produce maximum gain and performance around 50.1 mHz. Countless hours of computer optimization, range confirmation and on the air testing, resulted in an antenna which is truly remarkable. This single antenna is capable of producing moon echoes when pointed at rising or setting moon and running the legal power limit. If you would hear your own moon echoes over a one half million mile path, just think what it could do for your signal and long haul tropo, meteor scatter or just an ordinary E or F2 opening. And for the adventurous, imagine what four would do. Some people already have.....How about you?


6 METER 'H' FRAME
3/8" EYEBOLTS
2" x .125" x 20 FT. VERTICAL BOOM
1/2" FORGED TURNBUCKLES
5/16" BACRON SUPPORT CABLE
3/8" TURNBUCKLE
HEIGHTS TOWER MARTIN TOWER RHON TOWER
2" x .125" x 64" RISER
2" x .125" x 63" RISER
MT 3000 MOUNTING PLATES
5/16" BACRON
FRONT
6M2.5WL TYPICAL
2 WIDE 2 HIGH H FRAME
NOT TO SCALE 11-11-98



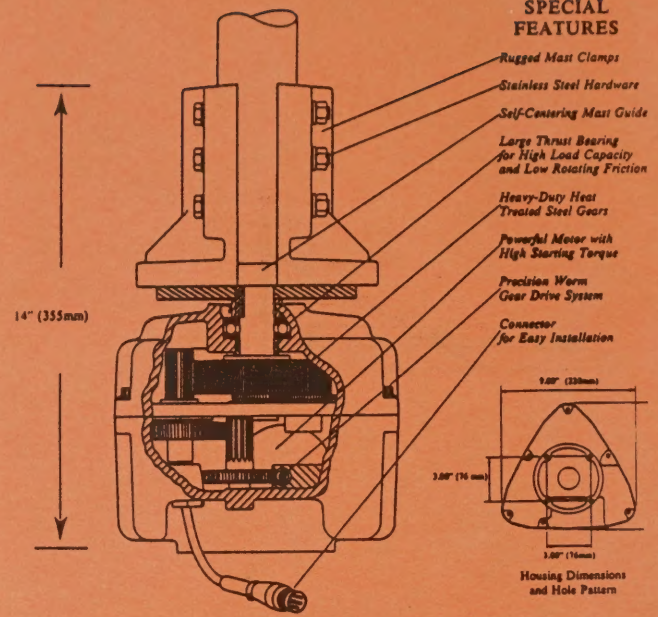
MT-3000A
ELEVATION MECHANISM

SPECIFICATIONS AND FEATURES

The MT-3000A is a versatile, heavy duty motorized mechanism designed to steer large phased antenna arrays in elevation. A full 180 degrees of rotational capability is useful for tracking fast moving, low orbit satellites and is also helpful allowing fast moving, low orbit satellites and is also helpful allowing the user to invert the array "top half" array for easy assembly, maintenance and repair. The MT-3000A has been specifically designed with the moonbouncer in mind. It has in excess of 3000 inch pounds of rotational torque and is capable of handling arrays of 16 five wavelength boom yagi antennas at 144 mHz. Windloads of 40 and 50 square feet are common in these type arrays.

A new control box design features a pulse counting circuit and large four digit LED display. Accuracy and repeatability have been improved greatly to 0.10 degree.

The control box is a stand alone product as well, since it can be set up to scale a wide range of input pulses to the desired readout. It offers improved accuracy for prop pitch and other types of azimuth rotators.


14" (355mm)
SPECIAL FEATURES
Rugged Mast Clamps
Stainless Steel Hardware
Self-Centering Mast Guide
Large Thrust Bearing for High Load Capacity and Low Rotating Friction
Heavy-Duty Heat Treated Steel Gears
Powerful Motor with High Starting Torque
Precision Worm Gear Drive System
Connector for Easy Installation
Housing Dimensions and Hole Pattern

ORION OR-2300
ANTENNA ROTATOR

SPECIFICATIONS

Antenna wind load capacity	35 sq. ft.
Starting Torque	2800 in. lbs
Rotating Torque	2000 in lbs
Braking Torque	17,000 in lbs.
Maximum Vertical Load	1800 lbs.
Mast Size* (O.D.)	1.75"-2.5"
Rotation Speed	55-120 sec (one revolution
Indicator Accuracy	True Position Within 4 Degrees
Input Voltage	100/120/200/220/AC 50-60 HZ
Motor Voltage	28 AC
Cable Type	6-wire
Weight (Rotator Unit)	40 lbs

*Up to 3.12" (79mm) mast with OR-2300-3

ACCESSORIES

OR-PS1	Pre-set control for "hands free" setting of antenna Position
OR-LMB1	Lower mast bracket for mounting on top of mast.
OR-FM1	Flexible mounting plate for installations with misaligned mast

FEATURES

The ORION OR-2300 antenna rotator is engineered for long life, reliability and high performance while turning large antenna systems. The stainless steel worm gear provides high drive power and excellent braking torque. The powerful motor and large heat treated gears provide very high turning torque.The rotator housing fits inside most popular towers. The control box has an easy-to-read meter, reversal delay circuit and variable speed control. The ORION OR-2300 is warranted for one year .

M² ENTERPRISES
PRODUCT PRICE LIST
7560 N. DEL MAR
FRESNO, CA 93711
PH (209) 432-8873 FAX (209) 432 3059

MODEL NUMBER	DESCRIPTION	SUG. RETAIL
	HF	
10-30LPY	10-30 mHz	$899.00
20M4	4 Element	$649.00
18M3	3 Element	$249.00
15M4	4 Element	$369.00
10M4	4 Element	$169.00
10M7	7 Element	$499.00
	6 METERS	
6M5	5 Element	$149.00
6M7	7 Element	$229.00
6M2WL	9 Element	$379.00
6M2.5WL	11 Element	$449.00
	2 METERS	
EB-144	HORIZ- OMNI	$119.00
2M7	7 Element	$105.00
2M12	12 Element	$129.00
2M5WL	17 Element	$169.00
2M18XXX	18 Element	$219.00
2M18XXXkit	KLM Conv. Kit	$ 69.00
2MCP14	14 Element Circ.	$149.00
2MCP22	22 Element Circ.	$225.00
2M6WLHD	19 Element HD	$379.00
2M5-440XP	5 Ele /10 ELe on 440	$149.00
	220	
220-7WL	23 Element	$189.00
	70 CM	
EB-432	Horiz Omni	$109.00
420-50-11	11 Ele full band	$ 99.00
440-18	Multi- Use	$109.00
436-30CP	30 Ele OSCAR	$229.00
432-9WL	28 Element	$149.00
432-13WL	39 Element	$229.00
MT-3000	Elev. Rotor HD	$669.00
MT-4000	Elev Rotor XHD	$899.00
ORION	AZ Rotor XHD	$899.00
	ACCESSORIES	
6M 2 port	2 WY 1/4 WV PD	$ 79.00
2M 2 PORT	2 WY 1/4 WV PD	$ 59.00
2M 4 PORT	4 WY PWR DIV	$ 79.00
70CM 2 PORT	2 WY PWR DIV	$ 59.00
70CM 4 PORT	4 WY PWR DIV	$ 69.00
VHF-50	'N' CONN PH CB	$ 39.00
UHF-50	'N' CONN PH CB	$ 35.00